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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,590	08/22/2003	Hidekazu Michioka	051252-5020-01	8583	
9629	7590 03/25/2005		EXAMINER		
MORGAN LEWIS & BOCKIUS LLP			KIM, CHRISTOPHER S		
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004		W	ART UNIT	PAPER NUMBER	
	•		3752	3752	

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Community	10/645,590	MICHIOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher S. Kim	3752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 Ja	Responsive to communication(s) filed on <u>13 January 2005</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	tion is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>8-24</u> is/are pending in the application.						
4a) Of the above claim(s) <u>8-12,20 and 21</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>13-19 and 22-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>13 January 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:						
·	-, <u></u> -					

DETAILED ACTION

Response to Amendment

- 1. The response filed January 13, 2005 is acknowledged.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

3. Claims 13-19 and 22-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13 recites the limitation "an opening" in line 7. It appears to be a double inclusion of the fuel outlet recited in line 3.

Claim Rejections - 35 USC § 102

4. Claims 13-19 and 22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Furuya et al. (5,586,726).

Furuya discloses a method of generating a spray pattern from a fuel injector having a body 2; a needle 3, 21; a seat 11; a fuel outlet/opening 10, 26; a plurality of passages 8, 9, 24, 25.

Application/Control Number: 10/645,590 Page 3

Art Unit: 3752

The distance, cross-section, inclination of the junction of passages 24 and 25 (and similarly 8 and 9) are different than the distance, cross-section, inclination of the passages 8 and 24 at the inlet.

The distance, cross-section, inclination of the junction of passages 8 and 24 are the same as the distance, cross-section, inclination of the passages 8 and 24.

Double Patenting

5. Claims 13-19 and 22-24 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13-19 and 22-24 of U.S. Patent No. 6,799,733. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of '733 fully discloses the claimed invention of the present application.

Response to Arguments

- 6. Applicant's arguments filed January 13, 2005 have been fully considered but they are not persuasive. In response to applicant's argument directed to Pace, the claimed invention of the present application is inherent in the method claim of Pace. Pace recites the needle, fuel outlet and valve seat in the method claim.
- 7. Remainder of applicant's arguments with respect to claims 13-19 and 22-24 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Application/Control Number: 10/645,590

Art Unit: 3752

Page 4

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3752

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher S. Kim Primary Examiner Art Unit 3752